

**KDE Career Pathways
Information Technology
2013-2014**

Career Pathway	Sequence of Core Courses	Elective Courses
<p>Computer Programming CIP 11.0201</p> <p><i>Tests for Certification:</i></p> <ul style="list-style-type: none"> • CompTIA Strata IT Fundamentals • CompTIA <ul style="list-style-type: none"> • A + (701 and 702) • Network + • Security + • Server + • Linux + • Microsoft Technology Associate • Sun Certified Java Associate • Sun Certified Java Professional • Adobe Certified Expert • Adobe Certified Associate (ACA) <ul style="list-style-type: none"> • Dreamweaver • Flash • Photoshop • KOSSA Communications (2013 - 2014) • KOSSA Programming (2014-2015) 	<ol style="list-style-type: none"> 1) IT Computer Literacy Fundamentals of IC3 Fundamentals of STRATA (CIT 105 Introduction to Computers) 2) Computational Thinking (CIT 120) 3) Introduction to Programming (CIT 147 – Programming 1: Language) 4) Special Topics in Programming i.e. possibly a specific Programming Language (Java, C++, Visual Basic) <p>OR</p> <p>One of the elective courses in the right column</p>	<ol style="list-style-type: none"> 1) Computer Applications focus on IC3 or STRATA, not on MOS 2) CompTIA A+ 3) Computer Essentials 4) Computer Hardware and Software 5) Web Page Development 6) Internet Technologies 7) Program Design (Database Design Fundamentals) 8) AP Computer Science 9) Leadership Dynamics 10) Other Courses Approved by Information Technology Consultant Related to Career Major

<p style="text-align: center;">Web Development/Administration CIP 11.0801</p> <p>Tests for Certification:</p> <ul style="list-style-type: none"> • CompTIA <ul style="list-style-type: none"> • A + (701 and 702) • Network + • Security + • Server + • Linux + • CompTIA Strata IT Fundamentals • Adobe Certified Associate <ul style="list-style-type: none"> • Dreamweaver • Flash • Photoshop • Adobe Certified Expert • CIW Foundations • CIW Web Associate • CIW Internet Business Foundations • CIW Site Development Foundations • CIW Network Technology Foundations • Internet and Computing Core Certification (IC3-3 Exams Required) <ul style="list-style-type: none"> • Computer Fundamentals • Key Applications • Living Online • Microsoft Technology Associate • WOW Certified Associate Webmaster (CAW) • Certified Web Administrator Apprentice (CWAA) • Certified Web Designer Apprentice (CWDSA) <p>KOSSA Communications-2013-2014</p> <p>KOSSA Web Design – 2014-2015</p>	<ol style="list-style-type: none"> 1) IT Computer Literacy Fundamentals of IC3 Fundamentals of STRATA (CIT 105 Introduction to Computers) 2) Web Page Development (CIT 155) 3) Web Site Design and Production (CIT 157) 4) Special Topics in Web Design <p style="text-align: center;">OR</p> <p>One of the elective courses in the right column</p>	<ol style="list-style-type: none"> 1) Computer Applications focus on IC3 or STRATA, not MOS 2) CompTIA A+ 3) Computer Essentials 4) Computational Thinking 5) Internet Technologies 6) Introduction to Programming 7) Leadership Dynamics 8) Other Courses Approved by Information Technology Consultant Related to Career Major
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<p>Geographic Information Systems CIP 45.0702</p> <p><i>Tests for Certification:</i></p> <ul style="list-style-type: none"> • CompTIA Strata IT Fundamentals • CompTIA <ul style="list-style-type: none"> • A + (701 and 702) • Linux + • Network + • Security + • Server + <p>KOSSA Communications</p> <p>POSSIBLE KOSSA Information Support & Services 2014-2015</p>	<ol style="list-style-type: none"> 1) IT Computer Literacy Fundamentals of IC3 Fundamentals of STRATA (CIT 105 Introduction to Computers) 2) Introduction to GIS (CIT 125) 3) GIS Software Tools (CIT225) 4) Advanced GIS/Selected Topic in GIS (CIT229) <p>OR</p> <p>One of the elective courses in the right column</p>	<ol style="list-style-type: none"> 1) Program Design 2) Computer Essentials 3) Computational Thinking 4) Internet Technologies 5) Leadership Dynamics 6) Special Topics in GIS 7) Other Courses Approved by Information Technology Consultant Related to Career Major
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<p>Information Support and Services CIP 47.0104 Tests for Certification:</p> <ul style="list-style-type: none"> • CompTIA • A + (701 and 702) • Linux + • Network + • Security + • Server + • CompTIA Strata IT Fundamentals • Help Desk Institute (HDI) • Customer Service Representative • Support Center Analyst • Desktop Support Technician • Support Center Team Lead • Support Center Manager • Support Center Director • Knowledge Center Support Principles • Internet and Computing Core Certification (IC3-3 Exams Required) • Computer Fundamentals • Key Applications <p>Living Online</p> <p>KOSSA Communications (2013-2014)</p> <p>KOSSA Computer Technician (2014-2015)</p>	<ol style="list-style-type: none"> 1) IT Computer Literacy Fundamentals of IC3 Fundamentals of STRATA (CIT 105 Introduction to Computers) 2) Computer Hardware and Software (CIT 111) 3) Help Desk Operations (CIT 232) 4) Help Desk II <p>OR</p> <p>One of the elective courses in the right column</p>	<ol style="list-style-type: none"> 1) Computer Essentials 2) CompTIA A+ 3) Help Desk II (Advanced) 4) Computer Systems 5) Security Fundamentals 6) Introduction to Networking Concepts 7) Network Fundamentals 8) Special Topics in Information Support and Services 9) Computer Maintenance and Support Services 10) Internet Technologies 11) Program Design 12) Leadership Dynamics 13) Other Courses Approved by Information Technology Consultant Related to Career Major
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<p>Network Administration</p> <p>MCSA</p> <p>Cisco</p> <p>Security</p> <p>CompTIA</p> <p>CIP 11.0901</p> <p>Tests for Certification:</p> <ul style="list-style-type: none"> • CompTIA Strata IT Fundamentals • CompTIA <ul style="list-style-type: none"> • A + (701 and 702) • Network + • Security + • Server + • Linux + • Novell Certified Linux Professional • Novell Certified Administrator • Microsoft Technology Associate (MTA) • Microsoft Certified Technology Specialist (MCTS) • Cisco Certified Entry Network Technician (CCENT) <p>Cisco Certified Network Associate (CCNA)</p> <p>KOSSA Communications (2013-2014)</p> <p>KOSSA Networking (2014-2015)</p>	<ol style="list-style-type: none"> 1) IT Computer Literacy Fundamentals of IC3 Fundamentals of STRATA (CIT 105 Introduction to Computers) 2) Computer Hardware and Software (CIT 111) 3) Introduction to Networking Concepts (CIT 160) 4) Special Topics in Networking <p>OR</p> <p>One of the elective courses in the right column</p>	<ol style="list-style-type: none"> 1) Computer Essentials 2) Internet Technologies 3) Introduction to Networking 4) CompTIA A+ 5) Network+ 6) Server + 7) Security + 8) Cisco 1 – 4 Courses 9) Leadership Dynamics 10) Other Courses Approved by Information Technology Consultant Related to Career Major
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<p>Informatics CIP</p> <p><i>Tests for Certification:</i></p> <p><i>KOSSA Communications 2013-2014</i></p> <p><i>KOSSA Programming 2014-2015</i></p>	<ol style="list-style-type: none"> 1) Connecting to the Digital World 2) Designing the Digital World 3) Building the Digital World 4) Managing the Digital World 	<ol style="list-style-type: none"> 1) Computer Applications focus on IC3 Fundamentals 2) AP Computer Science 3) CompTIA A+ 4) Computer Essentials 5) AP Psychology 6) Computational Thinking 7) Internet Technologies 8) Leadership Dynamics 9) Other Courses Approved by Information Technology Consultant Related to Career Major
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<p>NEW – 2013-2014 Digital Design/Gaming CIP 36.0113</p> <p><i>Tests for Certification:</i></p> <p><i>KOSSA Communications</i> 2013-2014</p> <p><i>KOSSA Programming</i> 2014-2015</p>	<ol style="list-style-type: none"> 1) IT Computer Literacy Fundamentals of IC3 Fundamentals of STRATA (CIT 105 Introduction to Computers) 2) Computational Thinking (CIT 120) 3) Digital Applications 4) Digital Gaming 	<ol style="list-style-type: none"> 1) Introduction to Programming 2) Web Page Design 3) Database Design 4) Social Media 1 5) Social Media II 6) Social Media Tools and Technologies 7) Digital Video Production 8) CompTIA A+ 9) Computer Essentials 10) Graphic Design 11) Internet Technologies 12) Digital Forensics 13) Leadership Dynamics 14) Other Courses Approved by Information Technology Consultant Related to Career Major
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<p>Computer Science</p> <p>AP Computer Science Exam</p> <p>KOSSA Communications 2013-2014</p> <p>KOSSA – Programming 2014-2015</p>	<ul style="list-style-type: none"> • IT Computer Literacy Fundamentals of IC3 Fundamentals of STRATA (CIT 105 Introduction to Computers) • Computational Thinking (CIT 120) • Advanced Placement Computer Science • Special Topics, Computer Science 	<ul style="list-style-type: none"> • Introduction to Programming • AP Psychology • Database Design • Social Media 1 • Social Media II • Social Media Tools and Technologies • CompTIA A+ • Computer Essentials • Internet Technologies • Leadership Dynamics • Other Courses Approved by Information Technology Consultant Related to Career Major
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